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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 69-0020
Luminaire: 11-0161-S2-GS
Report No: 20241123-B007
Ballast type: AC

Test No: 20241123-C007	Voltage(V): 22.330
LampCAT: LIMILEDS LUXEON 2835	Current(A): 0.482
Lamp flux(lm): 1206.4	Power (W): 10.763
Number of Lamps: 1	PF: 0.000
Length(mm): 280	Width(mm): 40
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 1127.73, Efficiency(%): 93.48% , Luminous Efficacy(lm/W): 104.78
Central intensity(cd): 1298.673, Maximum intensity(cd): 1298.673
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=58.6
[C90/270]Total=60.4
Field angle(10%Imax): [C0/180]Total=78.0
[C90/270]Total=78.0
Maximum s/h(1/2): C0_180=0.94 C90_270=0.98
Maximum s/h(1/4): C0_180=0.87 C90_270=0.88
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.58%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.571%

Equipment: GMS1980	Date: 2024/11/23	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1287.261	0.000	0	0.00%	0.00%
1.0	1286.712	1.232	1.232	0.10%	0.11%
2.0	1285.103	3.691	4.923	0.31%	0.44%
3.0	1283.713	6.144	11.067	0.51%	0.98%
4.0	1282.469	8.590	19.657	0.71%	1.74%
5.0	1280.714	11.027	30.683	0.91%	2.72%
6.0	1278.007	13.447	44.13	1.11%	3.91%
7.0	1274.423	15.843	59.973	1.31%	5.32%
8.0	1269.412	18.206	78.179	1.51%	6.93%
9.0	1264.035	20.532	98.711	1.70%	8.75%
10.0	1257.414	22.818	121.529	1.89%	10.78%
11.0	1249.550	25.050	146.579	2.08%	13.00%
12.0	1239.309	27.207	173.785	2.26%	15.41%
13.0	1226.006	29.257	203.043	2.43%	18.00%
14.0	1213.369	31.224	234.266	2.59%	20.77%
15.0	1200.051	33.133	267.399	2.75%	23.71%
16.0	1183.522	34.926	302.325	2.89%	26.81%
17.0	1163.815	36.554	338.879	3.03%	30.05%
18.0	1145.282	38.072	376.951	3.16%	33.43%
19.0	1124.513	39.490	416.441	3.27%	36.93%
20.0	1100.421	40.722	457.164	3.38%	40.54%
21.0	1071.148	41.699	498.862	3.46%	44.24%
22.0	1036.752	42.359	541.221	3.51%	47.99%
23.0	1000.749	42.752	583.973	3.54%	51.78%
24.0	958.010	42.826	626.799	3.55%	55.58%
25.0	910.745	42.491	669.29	3.52%	59.35%
26.0	860.983	41.822	711.112	3.47%	63.06%
27.0	806.118	40.786	751.898	3.38%	66.67%
28.0	749.710	39.390	791.288	3.27%	70.17%
29.0	689.252	37.647	828.936	3.12%	73.50%
30.0	627.610	35.555	864.491	2.95%	76.66%
31.0	564.208	33.167	897.657	2.75%	79.60%
32.0	501.457	30.530	928.187	2.53%	82.31%
33.0	440.331	27.745	955.933	2.30%	84.77%
34.0	382.785	24.910	980.843	2.06%	86.98%
35.0	326.182	22.018	1002.861	1.83%	88.93%
36.0	280.070	19.303	1022.164	1.60%	90.64%
37.0	232.514	16.718	1038.881	1.39%	92.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	192.470	14.185	1053.067	1.18%	93.38%
39.0	146.785	11.580	1064.647	0.96%	94.41%
40.0	107.250	8.860	1073.506	0.73%	95.19%
41.0	81.694	6.728	1080.235	0.56%	95.79%
42.0	62.228	5.229	1085.464	0.43%	96.25%
43.0	47.685	4.071	1089.535	0.34%	96.61%
44.0	37.217	3.204	1092.739	0.27%	96.90%
45.0	29.825	2.576	1095.316	0.21%	97.13%
46.0	24.883	2.139	1097.455	0.18%	97.32%
47.0	21.705	1.853	1099.308	0.15%	97.48%
48.0	19.214	1.654	1100.962	0.14%	97.63%
49.0	17.129	1.492	1102.455	0.12%	97.76%
50.0	15.552	1.363	1103.817	0.11%	97.88%
51.0	14.111	1.255	1105.072	0.10%	97.99%
52.0	12.842	1.157	1106.229	0.10%	98.09%
53.0	11.705	1.068	1107.297	0.09%	98.19%
54.0	10.691	0.987	1108.284	0.08%	98.28%
55.0	9.762	0.913	1109.197	0.08%	98.36%
56.0	8.866	0.842	1110.039	0.07%	98.43%
57.0	8.083	0.775	1110.814	0.06%	98.50%
58.0	7.414	0.717	1111.53	0.06%	98.56%
59.0	6.778	0.663	1112.194	0.05%	98.62%
60.0	6.233	0.615	1112.808	0.05%	98.68%
61.0	5.764	0.573	1113.381	0.05%	98.73%
62.0	5.333	0.535	1113.916	0.04%	98.78%
63.0	5.026	0.504	1114.42	0.04%	98.82%
64.0	4.868	0.485	1114.905	0.04%	98.86%
65.0	4.762	0.477	1115.382	0.04%	98.91%
66.0	4.711	0.473	1115.854	0.04%	98.95%
67.0	4.682	0.472	1116.327	0.04%	98.99%
68.0	4.693	0.475	1116.801	0.04%	99.03%
69.0	4.674	0.478	1117.279	0.04%	99.07%
70.0	4.674	0.480	1117.759	0.04%	99.12%
71.0	4.660	0.482	1118.242	0.04%	99.16%
72.0	4.649	0.484	1118.726	0.04%	99.20%
73.0	4.653	0.486	1119.212	0.04%	99.24%
74.0	4.649	0.489	1119.701	0.04%	99.29%
75.0	4.642	0.491	1120.192	0.04%	99.33%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.642	0.493	1120.685	0.04%	99.38%
77.0	4.638	0.495	1121.18	0.04%	99.42%
78.0	4.631	0.496	1121.676	0.04%	99.46%
79.0	4.638	0.498	1122.174	0.04%	99.51%
80.0	4.631	0.500	1122.674	0.04%	99.55%
81.0	4.634	0.501	1123.175	0.04%	99.60%
82.0	4.623	0.502	1123.677	0.04%	99.64%
83.0	4.631	0.503	1124.18	0.04%	99.69%
84.0	4.616	0.504	1124.683	0.04%	99.73%
85.0	4.631	0.505	1125.188	0.04%	99.77%
86.0	4.642	0.507	1125.695	0.04%	99.82%
87.0	4.645	0.508	1126.203	0.04%	99.86%
88.0	4.634	0.508	1126.711	0.04%	99.91%
89.0	4.631	0.508	1127.219	0.04%	99.95%
90.0	4.638	0.508	1127.727	0.04%	100.00%

Zonal flux distribution table

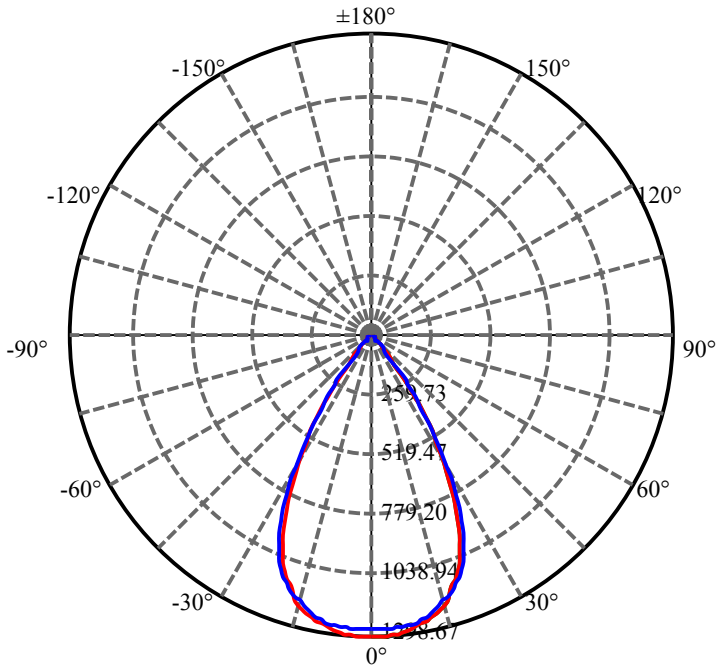
ZONAL LUMEN SUMMARY

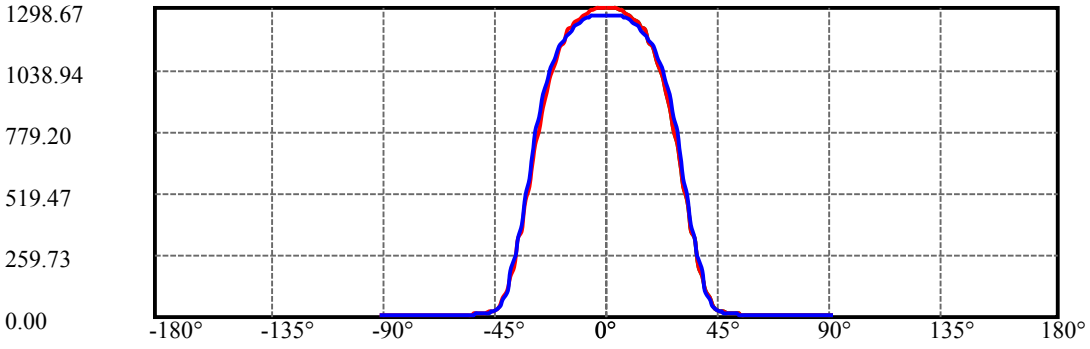
Zone	Lumens	%Lamp	%Fixt
0-30	864.49	71.66%	76.66%
0-40	1073.51	88.98%	95.19%
0-60	1112.81	92.24%	98.68%
0-90	1127.22	93.43%	99.95%
0-120	1127.22	93.43%	99.95%
0-180	1127.73	93.48%	100.00%
60-90	14.41	1.19%	1.28%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.15	902.18	74.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	121.53
10-20	335.63
20-30	407.33
30-40	209.02
40-50	30.31
50-60	8.99
60-70	4.95
70-80	4.91
80-90	4.55
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Light Distribution Curve [Unit:cd]





C0(Max):

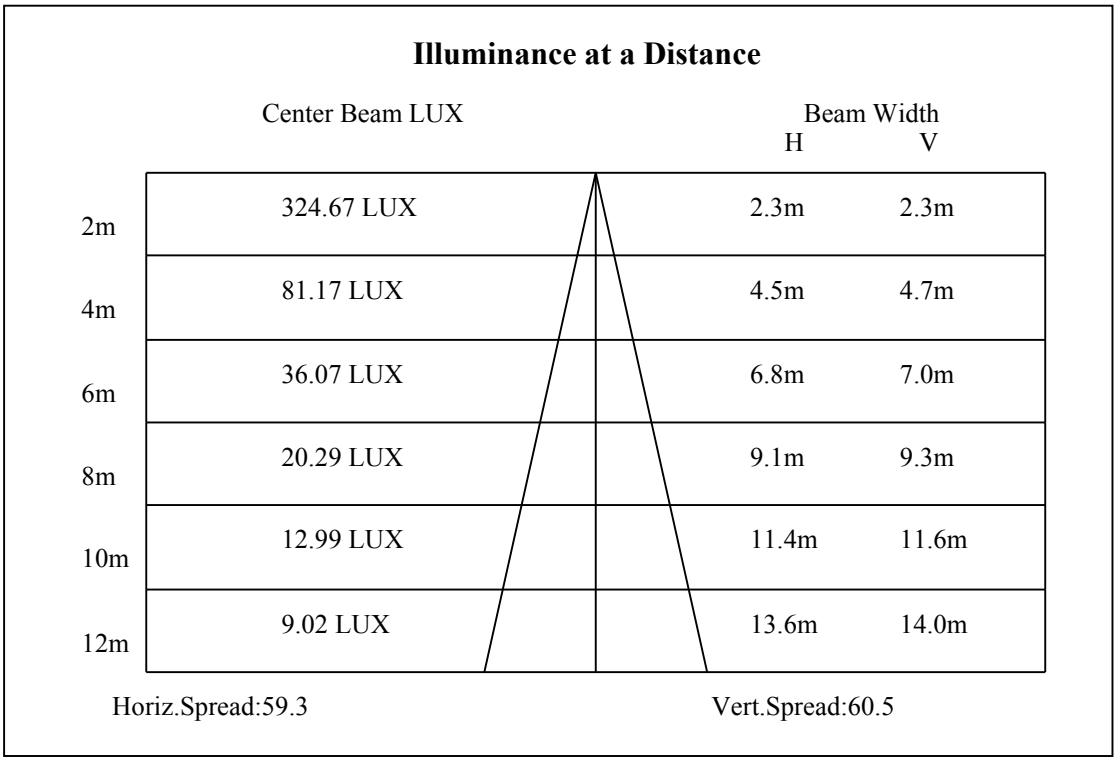
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:42.0 Right:36.0
:C90/270Left:40.9 Right:36.9

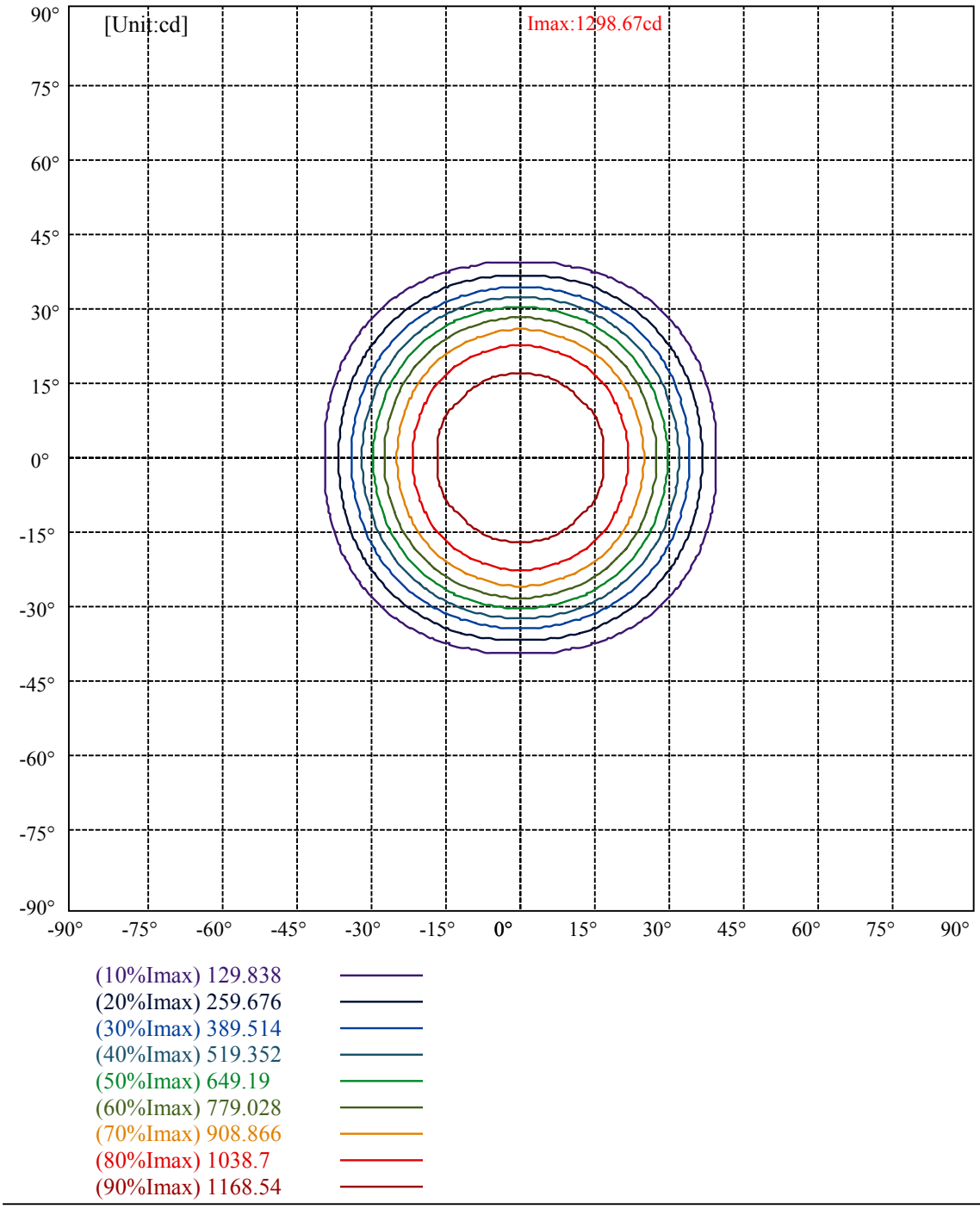
Beam Angle(50%Imax):C0/180Left:32.3 Right:26.3
:C90/270Left:32.2 Right:28.2

Lux distance Curve



Equipment: GMS1980 Date: 2024/11/23 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



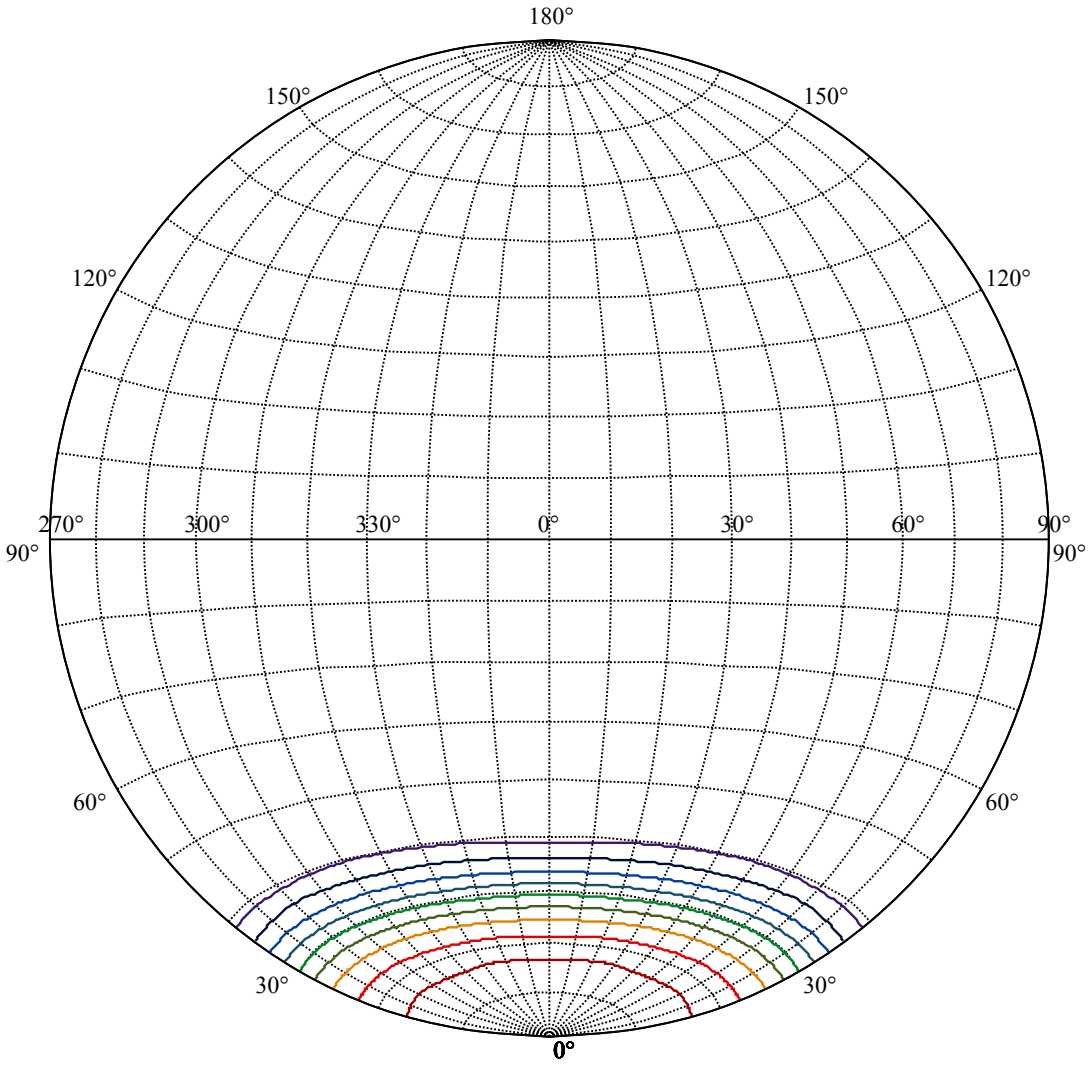
(10%Imax) 129.838
(20%Imax) 259.676
(30%Imax) 389.514
(40%Imax) 519.352
(50%Imax) 649.19
(60%Imax) 779.028
(70%Imax) 908.866
(80%Imax) 1038.7
(90%Imax) 1168.54

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1298.67

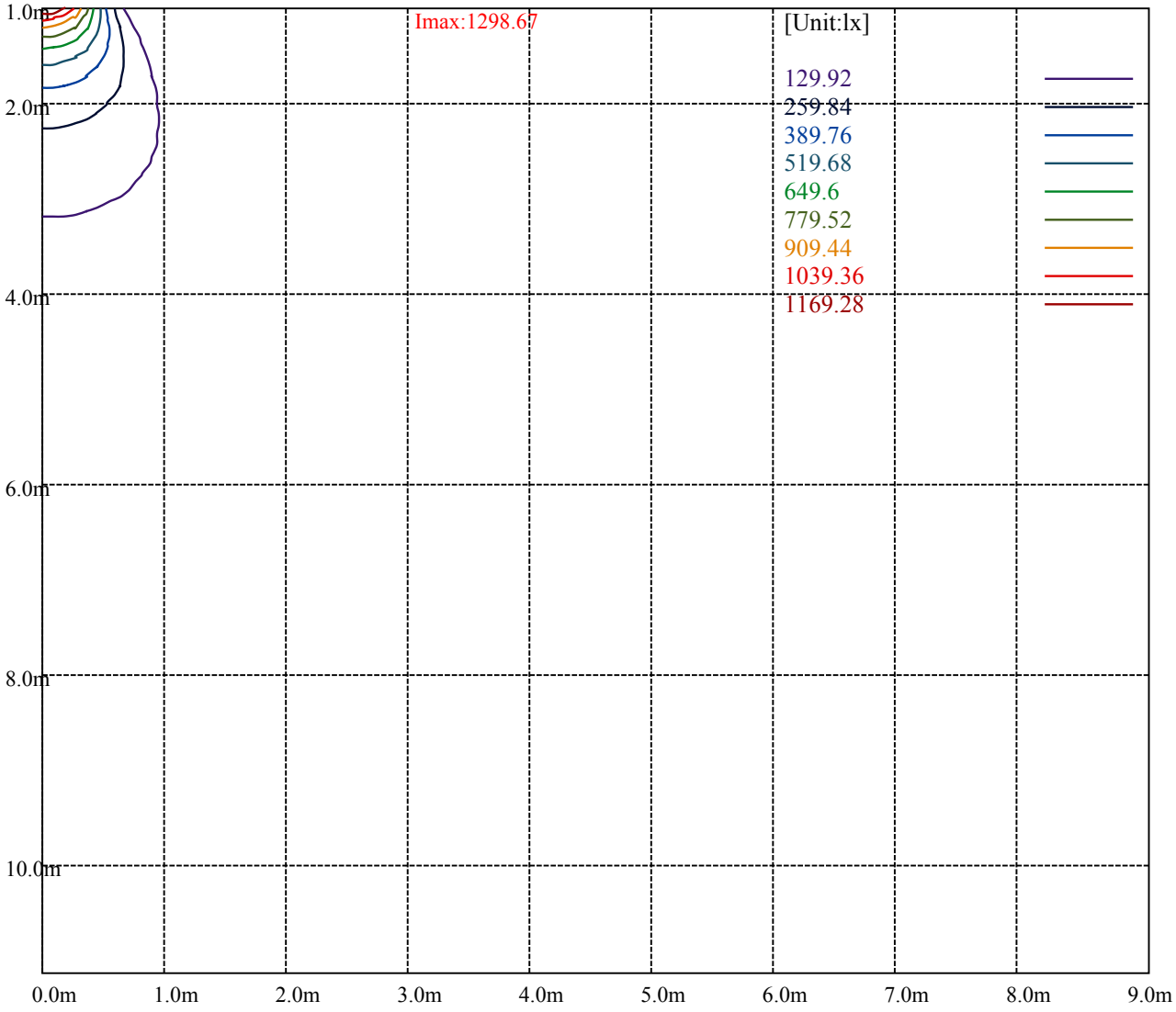
(10%Imax) 129.92
(20%Imax) 259.84
(30%Imax) 389.76
(40%Imax) 519.68
(50%Imax) 649.6
(60%Imax) 779.52
(70%Imax) 909.44
(80%Imax) 1039.36
(90%Imax) 1169.28

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

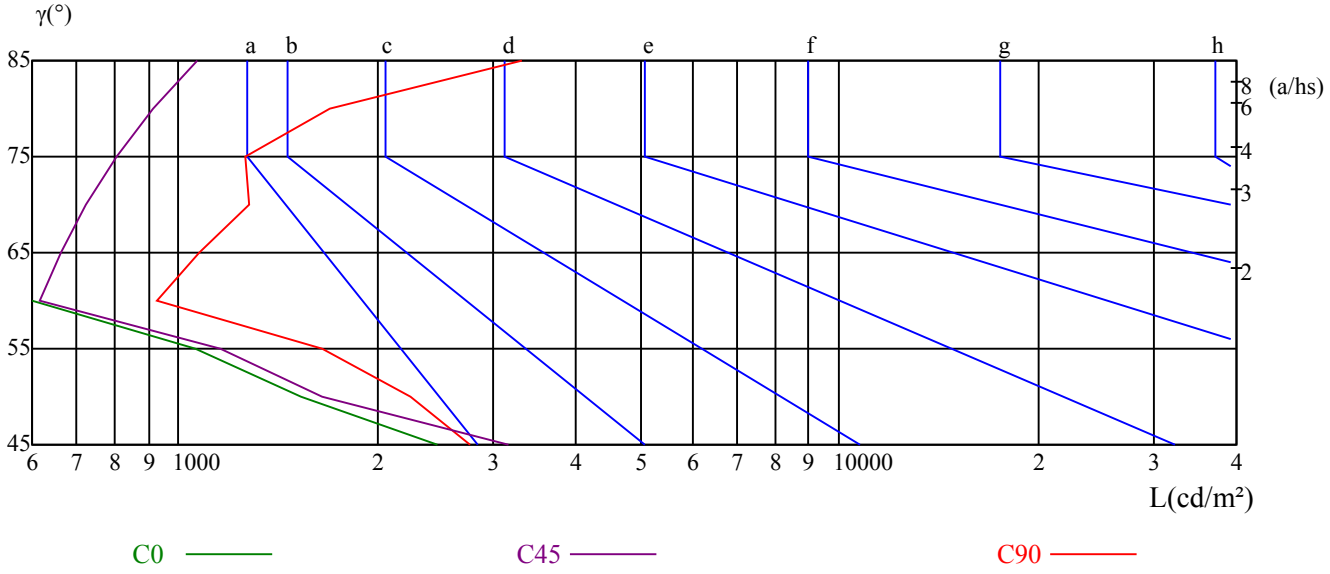
γ	45	50	55	60	65	70	75	80	85
C0	2463	1528	1063	560	597	644	704	785	893
C45	3158	1646	1155	615	662	724	805	914	1067
C90	2759	2247	1653	930	1072	1277	1259	1692	3301

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1236	1236	1236	2019	1595	1807	5995	5995	5995

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limitting Curve

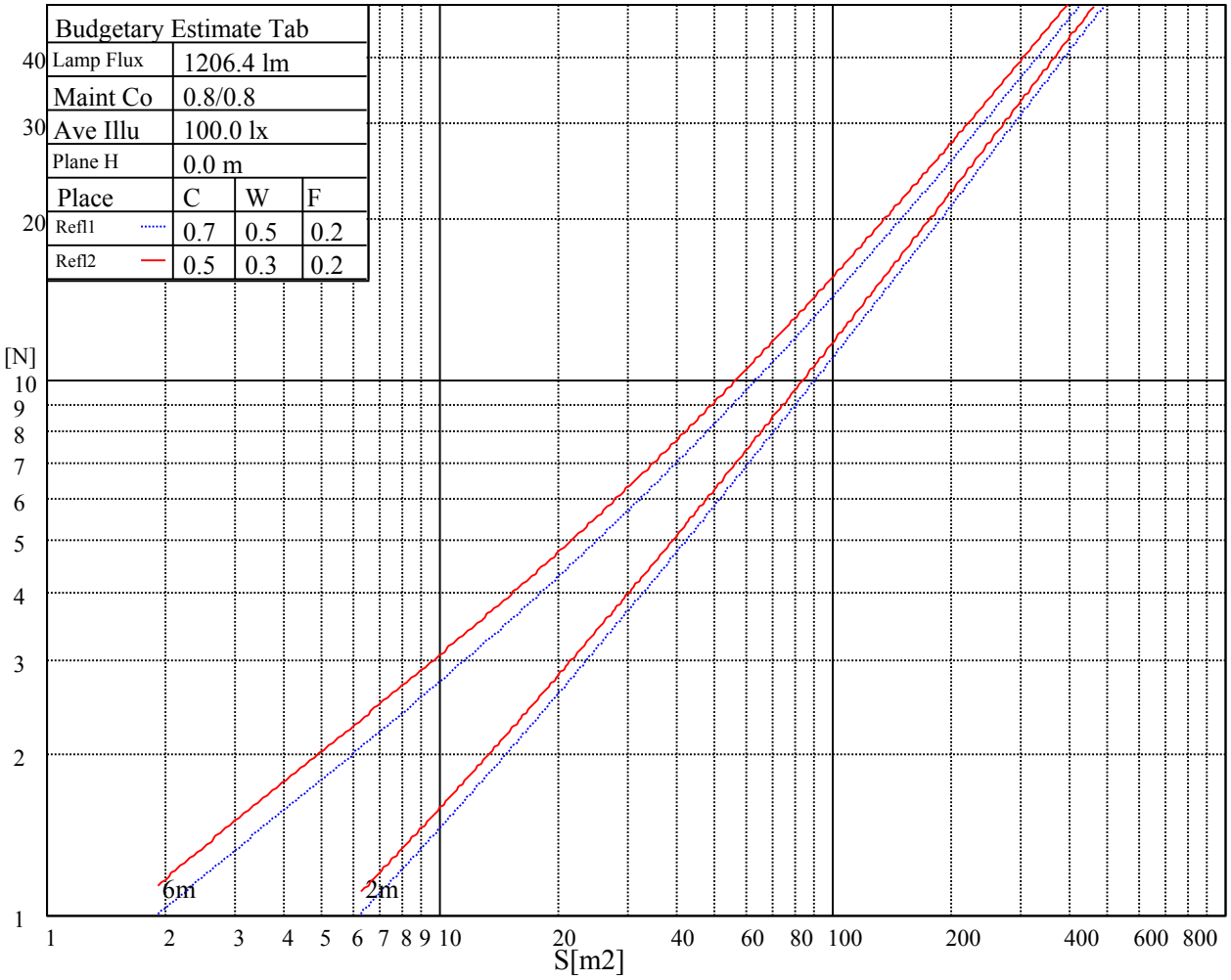


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.28	16.23	15.64	16.54	16.85	14.65	15.60	15.02	15.91	16.23
	3H	15.10	15.94	15.48	16.28	16.62	14.49	15.33	14.88	15.67	16.02
	4H	15.02	15.80	15.42	16.15	16.52	14.44	15.22	14.84	15.57	15.94
	6H	14.98	15.69	15.40	16.07	16.47	14.45	15.16	14.87	15.54	15.94
	8H	14.94	15.62	15.36	16.00	16.41	14.46	15.14	14.88	15.52	15.93
	12H	14.91	15.56	15.34	15.95	16.37	14.51	15.15	14.94	15.55	15.97
4H	2H	14.97	15.75	15.37	16.11	16.47	14.35	15.13	14.75	15.48	15.85
	3H	14.77	15.42	15.19	15.82	16.23	14.17	14.82	14.59	15.22	15.64
	4H	14.74	15.30	15.18	15.73	16.18	14.18	14.74	14.61	15.16	15.61
	6H	14.68	15.18	15.16	15.63	16.09	14.20	14.70	14.68	15.16	15.61
	8H	14.69	15.15	15.17	15.61	16.08	14.29	14.75	14.78	15.21	15.68
	12H	14.72	15.15	15.21	15.60	16.12	14.45	14.88	14.94	15.33	15.85
8H	4H	14.57	15.03	15.05	15.49	15.96	14.01	14.47	14.50	14.93	15.41
	6H	14.54	14.92	15.05	15.40	15.91	14.09	14.47	14.60	14.95	15.46
	8H	14.63	14.95	15.17	15.47	15.97	14.28	14.60	14.82	15.12	15.62
	12H	14.72	14.96	15.26	15.48	16.00	14.55	14.79	15.09	15.31	15.84
12H	4H	14.52	14.95	15.02	15.40	15.92	13.97	14.40	14.46	14.85	15.37
	6H	14.55	14.87	15.09	15.39	15.89	14.10	14.42	14.64	14.94	15.44
	8H	14.63	14.87	15.17	15.39	15.91	14.29	14.53	14.83	15.05	15.57

Variation with the observer position at spacings:		
S = 1.0H	5.7/-9.0	5.5/-9.3
S = 1.5H	8.2/-7.5	8.1/-8.2
S = 2.0H	9.9/-6.4	10.0/-7.1
Standard tables:	BK1	BK1
Uncorrected UGR	-4.0	-4.5

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

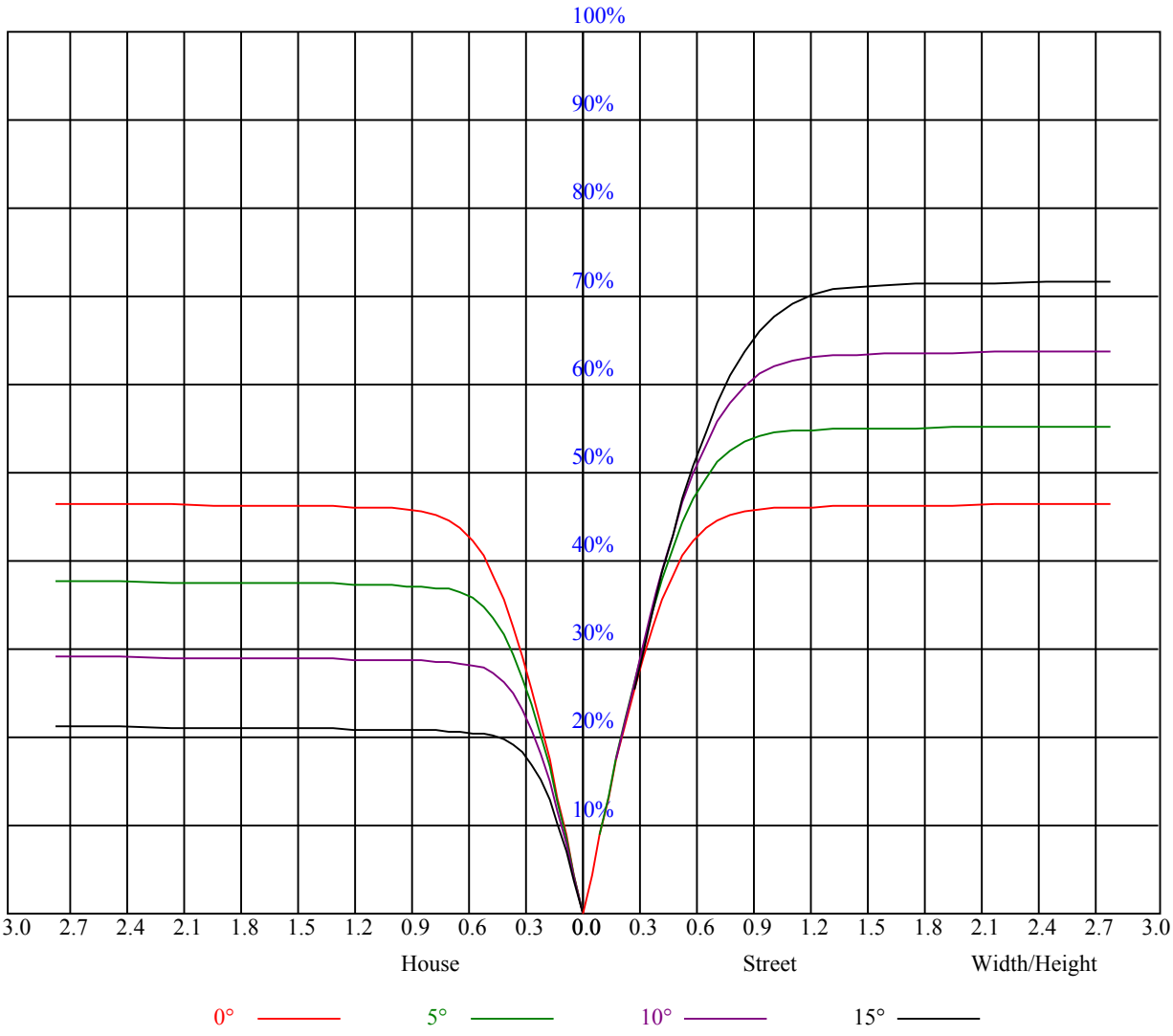


Equipment: GMS1980 Date: 2024/11/23 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

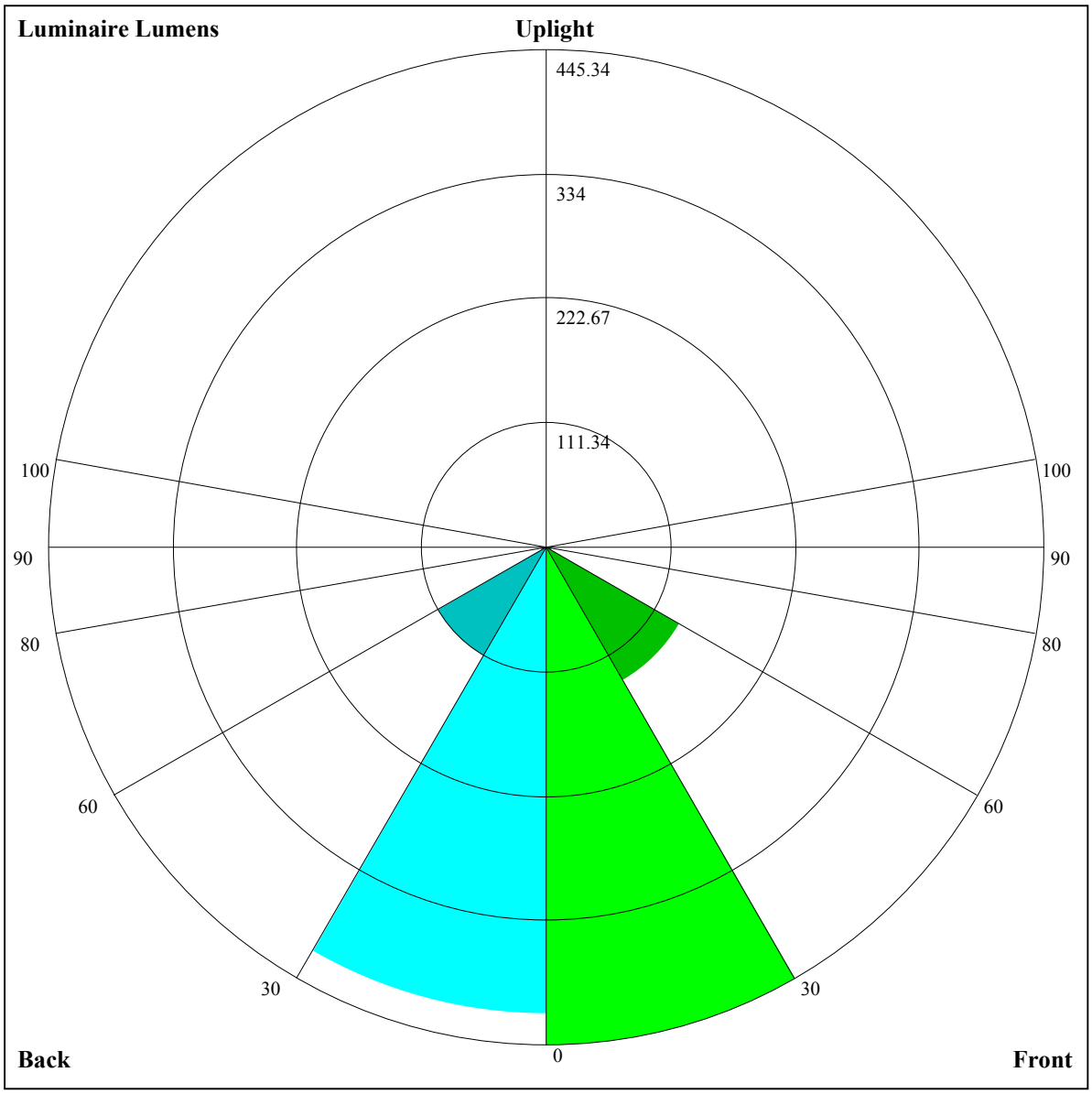
Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.94
1	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.90	0.86	0.82	0.89	0.85	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.75	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.71
5	0.79	0.74	0.70	0.79	0.74	0.70	0.77	0.73	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.67
6	0.75	0.69	0.65	0.74	0.69	0.65	0.73	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.63
7	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.59
8	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.55
9	0.63	0.58	0.54	0.63	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.52
10	0.60	0.54	0.51	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/11/23	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=445.34,FM=137.53,FH=4.98,FVH=2.53
BL=418.47,BM=111.84,BH=4.88,BVH=2.53
UL=0,UH=0

BUG Rating:B1-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	1298.67	1300.43	1301.60	1303.35	1304.53	1305.11	1301.60	1295.75	1289.89
22.5	1292.82	1294.58	1295.75	1295.16	1293.99	1293.99	1293.41	1293.41	1291.06
45.0	1292.24	1291.06	1289.31	1289.89	1292.24	1292.24	1291.06	1289.31	1283.46
67.5	1281.70	1279.95	1276.43	1274.09	1274.09	1274.09	1273.51	1270.58	1267.66
90.0	1268.83	1265.90	1264.14	1262.97	1261.22	1260.05	1257.71	1254.78	1251.85
112.5	1271.17	1272.34	1272.92	1271.75	1270.58	1268.24	1264.73	1261.22	1258.29
135.0	1288.72	1288.14	1287.55	1286.38	1282.87	1277.60	1271.75	1265.90	1260.05
157.5	1303.94	1302.77	1298.67	1295.16	1291.65	1286.97	1282.87	1275.85	1265.31
180.0	1298.67	1296.33	1292.24	1289.31	1285.80	1281.12	1274.68	1267.66	1259.46
202.5	1292.82	1289.31	1286.38	1284.63	1282.29	1279.95	1274.09	1269.41	1259.46
225.0	1292.24	1292.24	1287.55	1282.87	1277.02	1273.51	1270.00	1264.73	1258.88
247.5	1281.70	1283.46	1281.12	1280.53	1279.36	1275.85	1272.34	1266.49	1260.63
270.0	1268.83	1270.00	1270.58	1269.41	1270.58	1270.00	1269.41	1268.24	1264.14
292.5	1271.17	1269.41	1266.49	1265.31	1266.49	1267.07	1267.07	1266.49	1263.56
315.0	1288.72	1289.89	1290.48	1290.48	1289.31	1287.55	1286.97	1286.38	1285.21
337.5	1303.94	1301.60	1300.43	1298.09	1297.50	1298.09	1296.92	1294.58	1291.65
360.0	1298.67	1300.43	1301.60	1303.35	1304.53	1305.11	1301.60	1295.75	1289.89

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1282.87	1277.60	1272.92	1267.66	1258.29	1248.34	1237.22	1221.42	1167.00
22.5	1288.14	1284.04	1279.36	1271.17	1265.31	1257.71	1248.93	1234.88	1222.01
45.0	1276.43	1268.24	1261.80	1254.20	1243.66	1232.54	1220.84	1202.70	1166.00
67.5	1262.97	1257.71	1248.93	1241.32	1230.20	1219.08	1209.13	1195.67	1185.14
90.0	1246.59	1237.22	1227.86	1214.40	1203.87	1193.92	1164.71	1164.71	1149.97
112.5	1255.95	1253.03	1247.76	1236.05	1224.35	1212.06	1202.11	1188.07	1173.43
135.0	1253.61	1245.42	1234.30	1222.59	1208.55	1164.36	1164.36	1144.76	1123.57
157.5	1258.88	1251.27	1242.49	1230.79	1220.25	1209.72	1196.26	1175.19	1154.71
180.0	1250.10	1241.32	1233.13	1220.84	1208.55	1192.16	1175.78	1155.88	1133.05
202.5	1251.27	1241.91	1227.86	1216.16	1163.66	1163.66	1152.13	1129.07	1105.08
225.0	1252.44	1244.25	1235.47	1226.10	1216.16	1205.62	1192.16	1169.34	1149.44
247.5	1254.78	1246.00	1236.05	1224.35	1212.64	1199.77	1167.29	1167.29	1149.91
270.0	1260.05	1254.78	1247.76	1236.05	1227.28	1216.74	1204.45	1190.99	1178.12
292.5	1260.05	1256.54	1250.10	1241.91	1230.79	1221.42	1210.30	1166.41	1166.41
315.0	1282.87	1277.60	1270.58	1258.29	1243.08	1226.10	1218.50	1206.79	1194.50
337.5	1287.55	1281.70	1276.43	1267.07	1259.46	1250.68	1236.64	1223.18	1202.70
360.0	1282.87	1277.60	1272.92	1267.66	1258.29	1248.34	1237.22	1221.42	1167.00

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1167.00	1157.34	1127.96	1103.56	1067.63	1034.91	995.70	940.40	894.87
22.5	1206.79	1189.82	1170.51	1142.42	1114.91	1077.46	1045.27	1007.82	954.56
45.0	1166.00	1142.94	1121.35	1094.14	1064.29	1023.27	985.58	943.21	895.92
67.5	1172.26	1158.80	1137.15	1117.25	1092.67	1064.58	1020.69	980.90	937.59
90.0	1128.20	1108.77	1085.59	1059.49	1022.15	988.50	950.11	905.93	844.30
112.5	1154.71	1125.45	1100.28	1066.92	1034.15	997.87	958.07	903.06	858.58
135.0	1101.69	1071.78	1042.81	999.15	960.88	918.16	859.58	809.83	757.57
157.5	1133.05	1102.04	1074.53	1041.17	996.70	958.07	904.23	855.66	804.74
180.0	1101.45	1071.02	1038.25	1006.06	964.51	927.64	884.33	821.71	771.39
202.5	1074.41	1044.74	1011.03	974.63	926.24	883.16	838.16	777.00	724.74
225.0	1123.69	1101.45	1075.70	1037.66	1004.30	969.78	916.52	874.97	828.74
247.5	1121.76	1101.45	1078.45	1041.88	1004.83	964.45	913.19	868.24	820.84
270.0	1163.49	1144.17	1127.20	1108.47	1079.80	1051.71	1020.69	973.29	933.49
292.5	1162.08	1138.73	1117.78	1093.26	1059.32	1027.54	989.79	946.37	888.61
315.0	1184.55	1175.78	1164.07	1147.10	1122.52	1094.43	1054.63	1017.76	976.21
337.5	1163.37	1157.93	1134.05	1105.20	1073.13	1030.46	991.61	945.78	883.57
360.0	1167.00	1157.34	1127.96	1103.56	1067.63	1034.91	995.70	940.40	894.87

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	845.59	794.91	729.83	672.25	612.96	555.03	494.87	418.61	360.44
22.5	904.23	850.39	780.75	725.15	665.46	605.77	531.44	472.92	416.74
45.0	830.84	775.13	716.55	640.41	580.89	524.07	452.91	396.55	330.71
67.5	879.65	829.91	762.61	705.25	643.81	582.36	506.28	446.00	384.55
90.0	790.11	733.93	662.18	603.19	526.53	465.90	406.79	347.62	276.58
112.5	812.35	751.49	700.57	643.81	584.11	509.20	450.68	393.33	321.93
135.0	689.04	633.33	578.73	523.13	456.24	404.62	355.35	307.77	253.52
157.5	750.90	683.02	628.00	573.58	516.23	448.34	395.67	344.76	298.52
180.0	724.57	661.36	607.52	553.68	485.80	429.61	374.60	307.30	307.30
202.5	658.96	606.06	551.16	481.64	427.62	376.01	326.56	281.20	229.29
225.0	776.65	708.77	653.75	591.72	534.95	464.14	410.30	360.56	302.03
247.5	757.63	703.15	644.04	583.35	508.62	448.87	391.16	337.97	274.18
270.0	886.67	828.15	756.17	696.48	633.27	574.16	494.57	431.95	378.11
292.5	839.62	787.24	730.71	653.23	591.08	511.78	449.75	390.46	320.82
315.0	921.20	871.46	815.86	742.12	678.92	599.91	540.22	480.53	423.18
337.5	829.85	777.06	709.59	652.76	580.84	523.54	464.14	407.02	341.01
360.0	845.59	794.91	729.83	672.25	612.96	555.03	494.87	418.61	360.44

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	292.20	242.11	200.85	154.97	125.00	97.50	70.58	54.02	41.38
22.5	361.73	297.35	297.35	238.19	154.97	123.42	97.15	70.81	55.01
45.0	281.49	235.26	191.25	151.92	113.18	88.54	68.41	53.90	42.25
67.5	327.20	298.52	298.52	165.44	128.40	92.47	70.17	53.72	39.33
90.0	223.32	178.84	141.04	98.14	71.87	53.55	40.03	29.90	24.64
112.5	295.01	295.01	171.30	134.72	106.04	76.84	59.69	46.58	36.58
135.0	211.73	173.23	131.62	104.11	79.06	63.50	51.27	42.19	34.29
157.5	298.52	198.27	159.36	119.74	94.22	72.16	51.85	40.61	31.95
180.0	246.61	171.94	130.04	101.13	77.72	57.70	40.79	32.25	27.10
202.5	189.96	153.80	123.37	92.52	70.81	50.50	39.39	31.08	24.29
225.0	302.03	208.46	170.59	138.00	110.49	82.93	66.60	53.72	44.01
247.5	228.00	187.62	144.43	114.94	84.27	63.97	48.92	38.16	29.03
270.0	304.38	304.38	242.40	150.93	116.93	85.15	59.81	43.31	33.65
292.5	270.67	224.96	183.41	137.00	105.63	80.53	60.75	43.42	34.18
315.0	356.46	306.72	295.01	295.01	155.55	122.37	96.09	75.61	55.89
337.5	291.79	243.75	198.98	151.81	121.84	95.98	74.15	53.67	41.90
360.0	292.20	242.11	200.85	154.97	125.00	97.50	70.58	54.02	41.38

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	32.36	25.81	22.77	20.66	19.02	17.21	15.98	14.81	13.40
22.5	42.37	31.54	26.10	22.24	19.31	16.91	15.51	14.28	13.28
45.0	35.58	29.38	25.75	22.77	19.61	17.32	15.39	13.28	11.76
67.5	31.25	25.98	22.00	19.66	17.56	16.27	15.04	14.05	12.93
90.0	21.24	19.49	18.08	16.62	15.68	14.75	13.81	12.52	11.47
112.5	28.21	23.64	20.54	18.32	16.33	14.98	13.58	12.64	11.76
135.0	29.32	25.05	21.71	18.14	15.74	13.81	11.82	10.53	9.48
157.5	25.16	21.71	19.31	17.44	15.68	14.51	13.46	12.52	11.47
180.0	23.17	21.19	19.43	17.67	16.33	15.10	13.58	12.41	11.35
202.5	20.89	18.49	16.33	15.04	13.93	12.93	11.82	11.12	10.36
225.0	35.35	30.26	25.87	22.36	18.67	16.21	13.58	11.88	10.48
247.5	23.99	20.60	18.32	16.15	14.86	13.75	12.76	11.76	10.94
270.0	25.11	21.77	19.49	18.02	16.56	15.63	14.63	13.34	12.23
292.5	27.56	22.24	19.49	17.56	15.68	14.46	13.34	12.23	11.41
315.0	44.83	35.76	30.43	26.28	22.30	19.61	17.26	15.16	12.93
337.5	30.78	25.22	21.65	18.49	16.80	15.39	14.22	12.93	12.00
360.0	32.36	25.81	22.77	20.66	19.02	17.21	15.98	14.81	13.40

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.29	11.00	9.95	9.01	8.08	7.26	6.67	5.97	5.33
22.5	12.17	11.35	10.48	9.83	9.19	8.37	7.72	7.26	6.79
45.0	10.59	9.48	8.43	7.72	7.14	6.61	6.09	5.79	5.56
67.5	12.17	11.29	10.53	9.54	8.78	8.08	7.43	6.73	6.09
90.0	10.36	9.36	8.13	7.43	6.73	5.85	5.33	4.92	4.80
112.5	10.83	10.12	9.36	8.72	7.90	7.32	6.73	6.20	5.50
135.0	8.43	7.67	7.02	6.44	6.03	5.74	5.44	5.27	5.03
157.5	10.71	9.95	9.07	8.37	7.72	7.08	6.55	5.97	5.21
180.0	10.30	9.13	8.25	7.55	6.91	6.03	5.38	4.92	4.80
202.5	9.71	8.84	8.19	7.61	7.02	6.50	5.79	5.21	4.80
225.0	9.19	8.31	7.61	6.79	6.26	5.91	5.62	5.33	5.15
247.5	9.89	9.07	8.31	7.37	6.79	6.32	5.74	5.27	4.86
270.0	11.06	9.95	8.66	7.67	6.91	6.26	5.79	5.27	4.86
292.5	10.59	9.89	8.95	8.19	7.49	6.85	6.32	5.91	5.33
315.0	11.53	10.30	9.31	8.25	7.49	6.91	6.20	5.79	5.50
337.5	11.24	10.48	9.60	8.84	8.19	7.37	6.91	6.44	5.74
360.0	12.29	11.00	9.95	9.01	8.08	7.26	6.67	5.97	5.33

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.86	4.74	4.74	4.74	4.74	4.74	4.74	4.68	4.74
22.5	6.14	5.68	5.21	4.80	4.74	4.74	4.68	4.74	4.68
45.0	5.27	5.09	4.86	4.74	4.68	4.68	4.68	4.62	4.62
67.5	5.33	4.92	4.74	4.74	4.62	4.68	4.68	4.68	4.62
90.0	4.74	4.74	4.68	4.68	4.68	4.68	4.68	4.68	4.68
112.5	5.03	4.80	4.74	4.68	4.68	4.68	4.68	4.68	4.62
135.0	4.86	4.80	4.68	4.68	4.62	4.68	4.62	4.62	4.62
157.5	4.92	4.80	4.74	4.74	4.68	4.68	4.68	4.68	4.68
180.0	4.80	4.74	4.74	4.74	4.68	4.74	4.68	4.74	4.68
202.5	4.74	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68
225.0	4.97	4.86	4.74	4.68	4.68	4.68	4.68	4.68	4.68
247.5	4.74	4.74	4.68	4.68	4.68	4.68	4.68	4.68	4.62
270.0	4.74	4.74	4.68	4.74	4.74	4.74	4.68	4.74	4.68
292.5	4.86	4.68	4.68	4.68	4.68	4.68	4.68	4.62	4.68
315.0	5.21	5.09	4.92	4.74	4.68	4.68	4.62	4.62	4.62
337.5	5.21	4.80	4.68	4.62	4.62	4.62	4.62	4.62	4.62
360.0	4.86	4.74	4.74	4.74	4.74	4.74	4.74	4.68	4.74

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.74	4.68	4.74	4.74	4.68	4.68	4.68	4.74	4.68
22.5	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68
45.0	4.62	4.62	4.62	4.62	4.62	4.68	4.62	4.62	4.62
67.5	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
90.0	4.62	4.68	4.62	4.62	4.62	4.62	4.62	4.62	4.62
112.5	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
135.0	4.62	4.62	4.56	4.62	4.62	4.62	4.62	4.62	4.56
157.5	4.62	4.62	4.68	4.62	4.62	4.62	4.62	4.62	4.62
180.0	4.74	4.74	4.68	4.68	4.74	4.68	4.68	4.68	4.68
202.5	4.68	4.68	4.68	4.68	4.68	4.68	4.62	4.68	4.62
225.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
247.5	4.62	4.68	4.68	4.62	4.62	4.62	4.62	4.62	4.62
270.0	4.68	4.68	4.62	4.62	4.62	4.68	4.62	4.62	4.62
292.5	4.62	4.62	4.68	4.62	4.62	4.56	4.62	4.62	4.62
315.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.56	4.62
337.5	4.62	4.62	4.62	4.62	4.62	4.56	4.56	4.62	4.62
360.0	4.74	4.68	4.74	4.74	4.68	4.68	4.68	4.74	4.68

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.68	4.68	4.74	4.68	4.68	4.68	4.68	4.68	4.68
22.5	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
45.0	4.62	4.62	4.62	4.62	4.68	4.74	4.74	4.74	4.74
67.5	4.62	4.62	4.62	4.62	4.62	4.68	4.68	4.62	4.62
90.0	4.62	4.62	4.56	4.62	4.62	4.56	4.62	4.62	4.62
112.5	4.62	4.62	4.62	4.62	4.62	4.68	4.68	4.62	4.62
135.0	4.62	4.56	4.62	4.62	4.62	4.68	4.74	4.74	4.68
157.5	4.62	4.56	4.62	4.62	4.62	4.62	4.62	4.62	4.56
180.0	4.68	4.68	4.68	4.62	4.68	4.68	4.68	4.68	4.62
202.5	4.68	4.68	4.62	4.62	4.62	4.62	4.62	4.62	4.62
225.0	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
247.5	4.62	4.62	4.62	4.56	4.62	4.62	4.62	4.62	4.62
270.0	4.62	4.62	4.62	4.62	4.56	4.62	4.62	4.56	4.56
292.5	4.62	4.62	4.62	4.62	4.62	4.62	4.56	4.62	4.62
315.0	4.62	4.62	4.62	4.56	4.62	4.56	4.56	4.56	4.62
337.5	4.62	4.56	4.62	4.56	4.62	4.62	4.62	4.56	4.62
360.0	4.68	4.68	4.74	4.68	4.68	4.68	4.68	4.68	4.68

C/γ(°)	90.0
0.0	4.62
22.5	4.68
45.0	4.74
67.5	4.62
90.0	4.62
112.5	4.62
135.0	4.74
157.5	4.62
180.0	4.62
202.5	4.62
225.0	4.62
247.5	4.62
270.0	4.56
292.5	4.62
315.0	4.62
337.5	4.62
360.0	4.62